

# TOOL COMPOUNDS

make your research faster and easier



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# About Us

## TargetMol

Targets molecules in your research

**800+**

COMPOUND LIBRARIES

**20,000+**

INHIBITORS & AGONISTS

**16,000+**

NATURAL PRODUCTS

**13,000+**

RECOMBINANT PROTEINS

### About Us

TargetMol Chemicals Inc. is headquartered in the Greater Boston area, MA, and specializes in products and services that serve the research needs of chemical and biological scientists worldwide. With a client base in 50+ countries, TargetMol has evolved into one of the biggest global research suppliers for compound libraries and inhibitors & agonists.

### Our Products

We offer over 800 types of compound libraries and a wide range of high-quality research chemicals, including inhibitors, agonists, natural products, peptides, antibodies, and biologics including recombinant proteins and novel life-science kits.

### Our Services

Our lab allows us to conduct CADD (computer-aided drug design) and chemical synthesis to meet the customization needs of our clients.

## Products & Services



#### Compound Libraries

##### Clear Classification

800+ libraries

##### Continuous Update

##### Customization



#### Inhibitors & Agonists

##### High Coverage

20,000+ products  
3,000+ subtypes  
480+ receptors  
25 signaling pathways  
200+ new compounds/month

##### High Quality

HPLC  
NMR  
LC-MS

##### Cost Effective

Do more with less



#### Reagent Kits

##### Protease Inhibitor Cocktail

##### Phosphatase Inhibitor Cocktail

##### Deacetylase Inhibitor Cocktail

##### BCA Protein Quantification Kit

##### CCK-8

##### Ripa Lysis Buffer



#### Compound Synthesis

##### Rapid synthesis

15,000 ready-to-make complex compounds

##### Custom synthesis



#### CADD

##### Large Database

>26M Structures

##### Led by Professional

10+ years of experience

##### Lower Cost

Saves time & Money  
Holistic database  
Excellent resupply ability



#### Recombinant Proteins

##### Extensive Protein Categories

13,000+ products

##### Diverse Species & Expression Systems

##### High Purity & High Stability & Low Endotoxin

# Small Molecules

Some of our most popular small molecules



## TargetMol Kits

### Cocktails



Protease Inhibitor Cocktail .....	C0001
Phosphatase Inhibitor Cocktail I .....	C0002
Phosphatase Inhibitor Cocktail II .....	C0003
Phosphatase Inhibitor Cocktail III .....	C0004
Deacetylase Inhibitor Cocktail .....	C0048



### Cell Counting Kit-8

Cell Counting Kit-8 (CCK-8) .....	C0005
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### RIPA Lysis Buffer

RIPA Lysis Buffer(Strong) .....	C0045
RIPA Lysis Buffer(middle) .....	C0046
RIPA Lysis Buffer(weak) .....	C0047



### BCA Protein Quantification Kit

BCA Protein Quantification Kit .....	C0050
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## Hot Selling Inhibitors

### PI3K/Akt/mTOR signaling

Product Name	Catalog #	Product Name	Catalog #	Product Name	Catalog #
Alpelisib	T1921	Rabusertib	T6084	GJ103 sodium salt	T4251
3-Methyladenine	T1879	Duvelisib	T1988	Salidroside	T2717
Rapamycin	T1537	APY0201	T2061	Osu03012	T2466
BI-D1870	T6171	MOMIPP	T33467	ARN-3236	T5993
Osimertinib	T2490	Torin 1	T6045	Forskolin	T2939
MK-2206 dihydrochloride	T1952	Metformin	T8526	Desmethylglycine	TN1299
Ly294002	T2008	(E)-Akt inhibitor-IV	T9393	Everolimus	T1784

### Angiogenesis

Product Name	Catalog #	Product Name	Catalog #	Product Name	Catalog #
Quizartinib	T2066	Pemigatinib	T12401	Crenolanib	T2677
Ibrutinib	T1835	Erdaftinib	T3726	Semaxinib	T2064
Lenvatinib	T0520	SGL-7079	T6982	PX-478	T6961
Ribociclib	T6199	Pexidartinib	T2115	A83-01	T3031
Orelabrutinib	T12317	Gilteritinib	T4409	SB-431542	T1726

### Proteases/Proteasome

Product Name	Catalog #	Product Name	Catalog #	Product Name	Catalog #
GK921	T3968	Leupeptin Hemisulfate	T6564	Z-IETD-FMK	T7019
Azvadine	T14489	CHLOROQUINE	T8689		

### MAPK

Product Name	Catalog #	Product Name	Catalog #	Product Name	Catalog #
Sotorasib	T8684	Encorafenib	T6487	LY3009120	T6882
MRTX1133	T9303	SCH772984	T6066	PLX8394	T3579
Adagrasib	T8369	Takinib	T4264	Dabrafenib	T1903

## Stem Cells

Product Name	Catalog #	Product Name	Catalog #
C-82	T10641	Y-27632 dihydrochloride	T1725
RKI-1447	T1898	CHIR-99021	T2310
XAV-939	T1878	Verteporfin	T3112

## Cell Cycle/Checkpoint

Product Name	Catalog #	Product Name	Catalog #	Product Name	Catalog #
Adavosertib	T2077	Zoliflodacin	TQ0063	LY 345899	T15827
Palbociclib	T1785	JSH-150	T8484	Abemaciclib	T2381
PF-06873600	T8463	Centrinone	T14927	THZ1	T3664
MYC1975	T12133	Ro5-3335	T4687	Onvansertib	T6247
ON-01910	T6070	COH29	T3157	Secldemstat	T4527

## DNA Damage/DNA Repair

Product Name	Catalog #	Product Name	Catalog #	Product Name	Catalog #
Bleomycin Sulfate	T6116	Oxaliplatin	T0164	Favipiravir	T6833
Branaplam	T4641	Decitabine	T1508	RBN012759	T22414
Ceralasertib	T3338	Vidofludimus	T2601	Temozolomide	T1178
Cisplatin	T1564	Dxd	T11249L	Olaparib	T3015

## Apoptosis

Product Name	Catalog #	Product Name	Catalog #	Product Name	Catalog #
Fedratinib	T1995	Paclitaxel	T0968	Mezigdomide	T10703
Z-VAD(OMe)-FMK	T6013	Y-27632	T1870	Venetoclax	T2119
Erastin	T1765	Navitoclax	T2101	Deferoxamine Mesylate	T1637
MG-132	T2154	SB 202190	T2301	Doxorubicin hydrochloride	T1020
STM2457	T9060	Angiotensin II human	T7040	Z-VAD-FMK	T7020
RSL3	T3646	Eragidomide	T10765	Piperazine Erastin	T16540
Ferrostatin-1	T6500	Bafilomycin A1	T6740	Bafilomycin A1	T6740

## NF-κB

Product Name	Catalog #	Product Name	Catalog #	Product Name	Catalog #
MCC950 sodium	T6887	Zinc Protoporphyrin	T13396	Aucubin	T3416
Squalene	T4749	Okanin	TN2008	Necrostatin-1	T1847
Dapansutrile	T15052	Nigericin sodium salt	T3092	Dendrophenol	T3S1707

## GPCR/G Protein

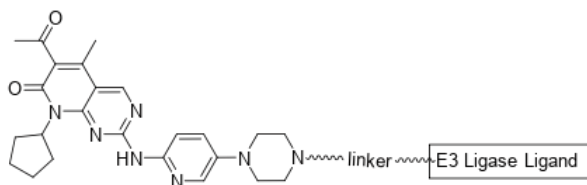
Product Name	Catalog #	Product Name	Catalog #	Product Name	Catalog #
Empagliflozin	T1766	Prostaglandin E2	T5014	Adagrasib	T8369
Phorbol 12-myristate 13-acetate	TQ0198	Orforglipron	T11408	TG6-10-1	T2428
Liraglutide	T6876	Serotonin	TN2437	MRTX1133	T9303
Gastrin I, human	TP2030	Volinanserin	T5389	PF-06882961	T12431
Etrasimod	TQ0227	Sotorasib	T8684	PF-04418948	T3306

\* All products are for Research Use Only. Not for Human or Veterinary or Therapeutic Use.

# Custom Synthesis

One-stop solution to Custom synthesis

## Complex Structure Synthesis



proteolysis targeting chimeras (PROTAC)

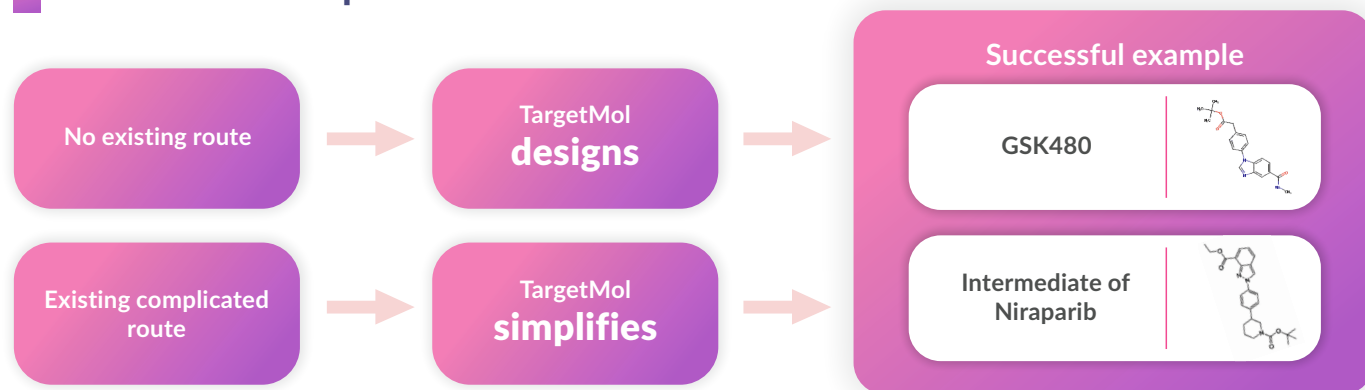
### Complicated structures

- ✓ chiral structures
- ✓ polycyclic structures
- ✓ long chains
- ✓ up to 20-step reactions

### Multi-component reactions

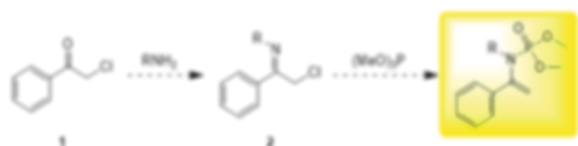
- ✓ Ugi reaction
- ✓ Mannich reaction
- ✓ Suzuki reaction

## Route Development



## Lead Optimization

Employing SAR (structure-activity relationship) and structure-based design, TargetMol helps you get



### Analogs

- ✓ Improved potency
- ✓ Reduced off-target activities
- ✓ Reasonable in vivo pharmacokinetics suggested by physiochemical/metabolic properties

## Resupply Ability

We are able to provide synthesized products in bulk.



Hundred grams



Kilograms

Saves your worry from sourcing and repurchasing compounds for follow-up research.



# CADD

( Computer-Aided Drug Design )

## Various CADD Services Offered by Targetmol

### Molecular Docking/Virtual Screening

We provide molecular docking services to explore the interaction mode between protein and small molecules/peptides/proteins; Meanwhile, we offer virtual screening services based on target/ligand structure, thereby reducing the number of compounds to be screened by focused screening and improving the efficiency of lead compound discovery.

### Protein Simulation & Prediction

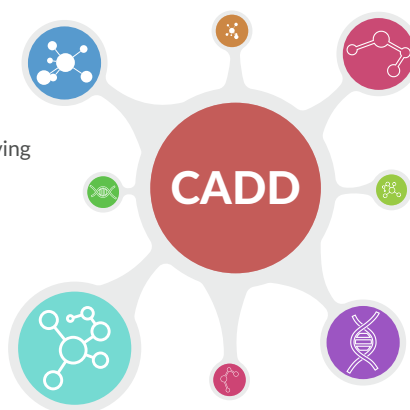
We offer homology modeling services to predict the 3D structure of proteins from amino acid sequences; We also provide target fishing services to find possible targets for bioactive compounds.

### ADMET Prediction

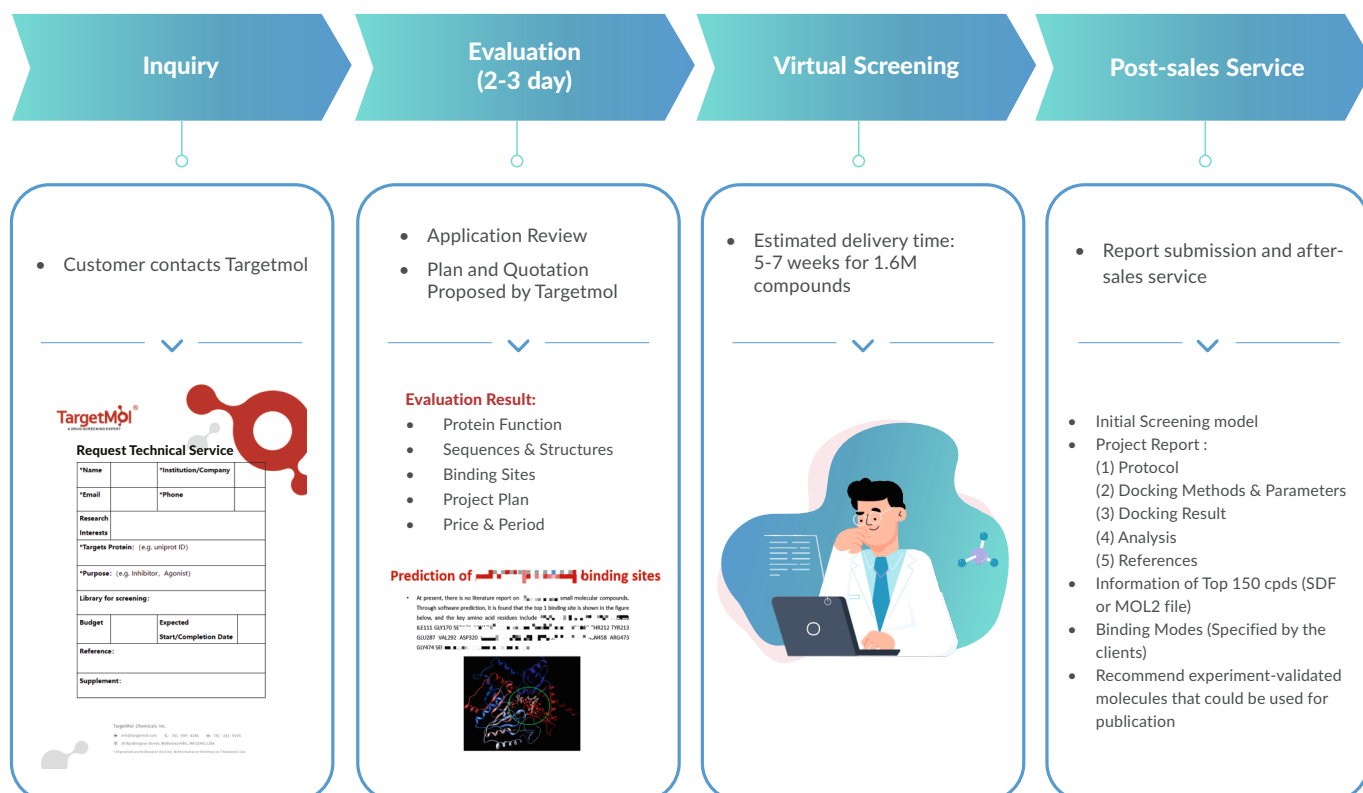
Using ADMET platform to predict the absorption, distribution, metabolism, excretion and toxicity properties of small molecules in the human body to reduce the elimination rate of candidate molecules and increase the success rate of drug development.

### Lead Optimization Scaffold Hopping

Based on the experiment requirements, design and optimize high-quality small molecule derivatives. Find drug molecules with novel structures through the method of scaffold hopping, and obtain hit compounds without intellectual property protection.



## General Process of CADD service



# Compound Libraries

Some of our most popular compound libraries

## ● I Focused Bioactive Libraries

For drug screening, cell induction, drug repurposing, mechanism research, target identification, positive control and other related research fields.

### 1.1 Recommended Bioactive Libraries

Approved Drug Library .....	L1000
Clinical Compound Library .....	L3400
Bioactive Compound Library .....	L4000
Bioactive Compound Library Max .....	L4010
Featured Novel Bioactive Compound Library .....	L4150
FDA-Approved Drug Library .....	L4200
Drug Repurposing Compound Library .....	L9200

### 1.2 Approved/Repurposing Libraries

Approved Drug Library .....	L1000
FDA-Approved & Pharmacopeia Drug Library .....	L1010
Clinical Compound Library .....	L3400
Preclinical Compound Library .....	L3410
FDA-Approved Drug Library .....	L4200
NMPA-Approved Drug Library .....	L4210
Drug Repurposing Compound Library .....	L9200

### 1.3 Disease-Focused Libraries

Anti-Viral Compound Library .....	L1700
Anti-COVID-19 Compound Library .....	L1710
Anti-Infection Compound Library .....	L1800
Anti-Diabetic Compound Library .....	L1900
Anti-Cancer Compound Library .....	L2100
Anti-Cancer Approved Drug Library .....	L2110
Anti-Cancer Clinical Compound Library .....	L2120
Anti-Cancer Metabolism Compound Library .....	L2130
Cancer Cell Differentiation Compound Library .....	L2140
Anti-Cancer Drug Library .....	L2150
Chemotherapy Drug Library .....	L2151
Targeted Therapy Drug Library .....	L2152
Anti-Cancer Active Compound Library .....	L2160
Immuno-Oncology Compound Library .....	L2170
Anti-Cancer Compound Library Plus .....	L2180
Anti-Lung Cancer Compound Library .....	L2190
Anti-Breast Cancer Compound Library .....	L2191
Anti-Pancreatic Cancer Compound Library .....	L2192
Anti-Liver Cancer Compound Library .....	L2193
Anti-Neurodegenerative Disease Compound Library .....	L2620
Anti-Fungal Compound Library .....	L4500
Anti-Parasitic Compound Library .....	L4510
Anti-Bacterial Compound Library .....	L4520
Anti-Nervous System Disease Library .....	L4660
Immunology/Inflammation Compound Library .....	L4700
Nonsteroidal Anti-Inflammatory Compound Library .....	L4710
Anti-Metabolism Disease Compound Library .....	L5200
Anti-Cardiovascular Disease Compound Library .....	L5400
Anti-Obesity Compound Library .....	L7100
Anti-Hypertension Compound Library .....	L7110
Anti-Aging Compound Library .....	L8200
Hematonosis Compound Library .....	L8400
Anti-Fibrosis Compound Library .....	L9810
Anti-Parkinson's Disease Compound Library .....	L9830

Anti-Alzheimer's Disease Compound Library .....	L9840
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### 1.4 Target/Pathway-Focused Libraries

Protease Inhibitor Library .....	L1100
Microtubule-Targeted Compound Library .....	L1110
AMPK-Targeted Compound Library .....	L1120
Epigenetics Compound Library .....	L1200
PI3K-AKT-mTOR Compound Library .....	L1300
Cytoskeletal Signaling Pathway Compound Library .....	L1310
MAPK Inhibitor Library .....	L1400
GPCR Compound Library .....	L1500
Nuclear Receptor Compound Library .....	L1510
GPCR Compound Library Plus .....	L1580
Kinase Inhibitor Library .....	L1600
FDA-Approved Kinase Inhibitor Library .....	L1610
Inhibitor Library .....	L2000
Tyrosine Kinase Inhibitor Library .....	L2200
Ion Channel Inhibitor Library .....	L2300
Neuronal Signaling Compound Library .....	L2600
Neurotransmitter Receptor Compound Library .....	L2610
Adrenergic Receptor-Targeted Compound Library .....	L2700
Serotonin Receptor-Targeted Compound Library .....	L2800
Autophagy Compound Library .....	L3200
Histamine & Melatonin Receptor-Targeted Compound Library .....	L3300
Methylation Compound Library .....	L3510
Cytokine Inhibitor Library .....	L3600
JAK-STAT Compound Library .....	L3700
NF-κB Signaling Compound Library .....	L3800
DNA Damage & Repair Compound Library .....	L3900
TGF-beta/Smad Compound Library .....	L4100
Wnt/Hedgehog/Notch Compound Library .....	L4300
Angiogenesis related Compound Library .....	L4800
Mitochondria-Targeted Compound Library .....	L5300
Calcium Antagonist Library .....	L7200
Potassium Channel Blocker Library .....	L7300
Sodium Channel Blocker Library .....	L7400
Chemokine Inhibitor Library .....	L7600
Cell Cycle Compound Library .....	L8100
HIF-1 Signaling Pathway Compound Library .....	L8500
Ubiquitination Compound Library .....	L8600
Ferroptosis Compound Library .....	L8700
Cuproptosis Compound Library .....	L8710
Apoptosis Compound Library .....	L9000
Phosphatase Inhibitor Library .....	L9100
Exosome Compound Library .....	L9420
Endoplasmic Reticulum Stress Compound Library .....	L9700

### 1.5 Characteristic Bioactive Libraries

Transcription Factor-Targeted Compound Library .....	L1380
Nucleotide Compound Library .....	L1720
Endocrinology-Hormone Compound Library .....	L2400
Human Endogenous Metabolite Library .....	L2500
Lipid Metabolism Compound Library .....	L2510

Glycometabolism Compound Library .....	L2520
Glycolysis Compound Library .....	L2521
Mouse Metabolite Compound Library .....	L2530
Gut Microbial Metabolite Library .....	L2540
Glutamine Metabolism Compound Library .....	L2550
Metabolism Compound Library .....	L2560
Human Metabolite Library .....	L2570
Oxidation-Reduction Compound Library .....	L2900
Antioxidant Compound Library .....	L2910
Hematopoietic Toxicity Compound Library .....	L3100
Histone Modification Compound Library .....	L3500
DNA Damage and Repair Compound Library Plus .....	L3980
Antibiotics Library .....	L4400
Cardiotoxicity Compound Library .....	L4900
Fluorochemical Library .....	L5100
Toxic Compound Library .....	L5500
Drug-induced Liver Injury (DILI) Compound Library .....	L5510
Drug Metabolite/Impurity Library .....	L5800
CNS-Penetrant Compound Library .....	L5900
Bioactive Lipid Compound Library .....	L7000
Coagulation and Anticoagulation Compound Library .....	L7500
Neural Regeneration Compound Library .....	L7700
Osteogenesis Compound Library .....	L7900
Stem Cell Differentiation Compound Library .....	L8000
Reprogramming Compound Library .....	L8110
Chromatin Modification Compound Library .....	L8300
Food Additive Library .....	L9001
Pediatric Drug Library .....	L9210
ReFRAME Related Library .....	L9230
Macrocyclic Compound Library .....	L9300
PPI Inhibitor Library .....	L9400
Covalent Inhibitor Library .....	L9410
Cysteine Covalent Library .....	L9411
Target-Focused Phenotypic Screening Library .....	L9500
Peptide Compound Library .....	L9600
Cyclic Peptide Library .....	L9610
Beta-Lactam Compound Library .....	L9820
Orally Active Compound Library .....	L9850

## ● II Natural Product Libraries

For cell induction research and the drug screening focused on unique natural structures along with new bioactivity.

### 2.1 General Natural Product Libraries

Natural Product Library for HTS .....	L6000
Natural Product Library .....	L6010

### 2.2 Characteristic Natural Product Libraries

Human Endogenous Metabolite Library .....	L2500
Gut Microbial Metabolite Library .....	L2540
Selected Plant-Sourced Compound Library .....	L4600
Polyphenolic Natural Product Library .....	L6100
Alkaloid Natural Product Library .....	L6110
Flavonoid Natural Product Library .....	L6120
Terpene Natural Product Library .....	L6130
Saccharide and Glycoside Natural Product Library .....	L6140
Covalent Natural Product Library .....	L6150
RO5 Drug-like Natural Product Library .....	L6160
Yao Medicine Compound Library .....	L6200
Tibetan medicine Compound Library .....	L6210
Food as Medicine Compound Library .....	L6300
Marine Natural Product Library .....	L6400
Microbial Natural Product Library .....	L6500
Anti-Gastroenteritis Natural Product Library .....	L6600
Anti-infective Natural Product Library .....	L6610

Antiparasitic Natural Product Library .....	L6620
Anti-Tumor Natural Product Library .....	L6700
Anti-Inflammatory Traditional Chinese Medicine Compound Library .....	L6710
Anti-COVID-19 Traditional Chinese Medicine Compound Library .....	L6720
Anti-Colorectal Cancer Traditional Chinese Medicine Compound Library .....	L6740
Chinese Pharmacopoeia Natural Product Library .....	L6800
Traditional Chinese Medicine Monomer Library .....	L6810
Rare Natural Compound Library .....	L6900

### 2.3 Natural Product Libraries for CADD

Selectable Natural Product Library .....	L6020
Natural Product Derivatives Library for CADD .....	L6030

## ● III Fragment Libraries

For various fragment-based drug design and new drug discovery.

### 3.1 General Fragment Libraries

Featured Fragment Library .....	L5700
High Solubility Fragment Library .....	L7800

### 3.2 Characteristic Fragment Libraries

High Solubility Polyfunctional Group Fragment Library .....	L7810
High Solubility Micro Fragment Library .....	L7820
High Solubility Pharmacophore Fragment Library .....	L7830
High Solubility FragLite Fragment Library .....	L7840
High Solubility 3D Diversity Fragment Library .....	L7850
Mini Electrophilic Heterocyclic Fragment Library .....	L7860
Carboxylic Acid Fragment Library With Solubility .....	L7870
Drug-Fragment Library .....	L8800

## ● IV Drug-Like Compound Libraries

For drug design and new drug discovery.

### 4.1 Compound Libraries for HTS/HCS

Mini Scaffold Library .....	L5600
Golden Scaffold Library .....	L5610

## ● V Custom Library

You can select compounds, quantities, format (dry/solid or DMSO), plate map, and concentration to meet your specific requirement.

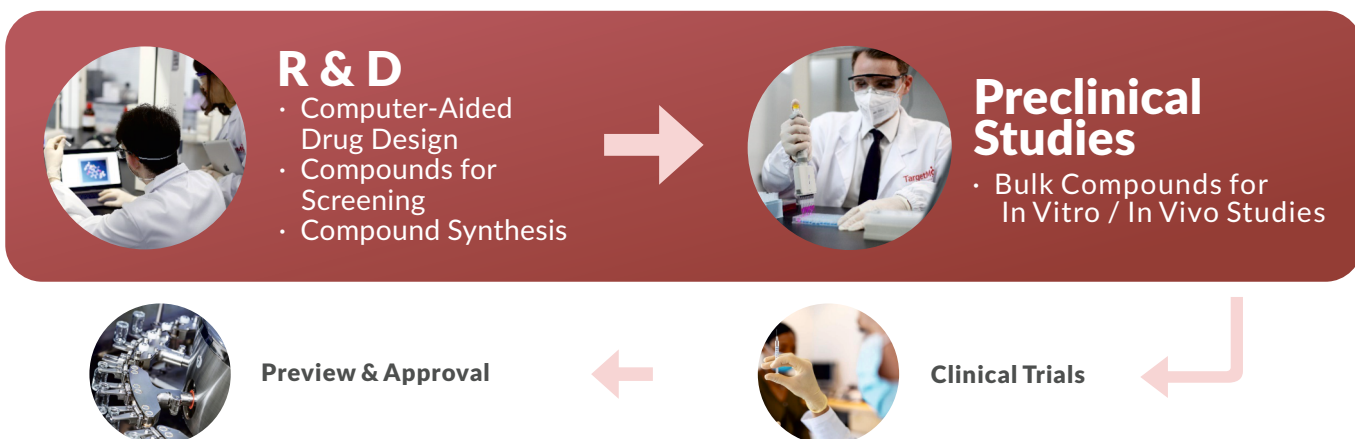
Please contact us at [inquiry@targetmol.com](mailto:inquiry@targetmol.com) to customize your library.

### Select

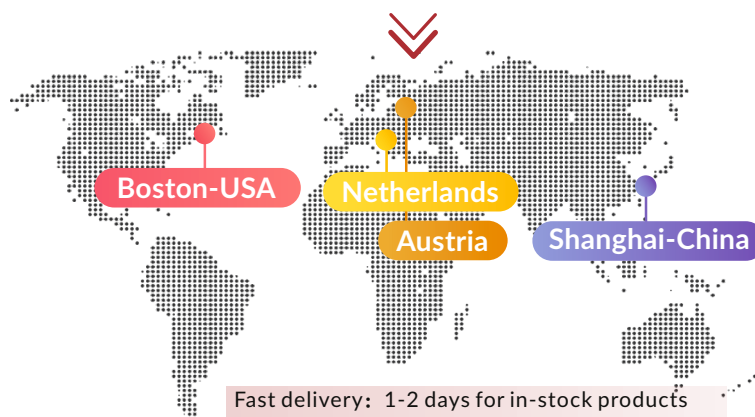


# TargetMol® Solutions for Drug Discovery

TargetMol® strives to accelerate the research & development process in drug discovery with our products and services



## Why TargetMol® ?



## Accreditations

This award was given to Targetmol by its fast increase in the number of citations in 2023.





Cite TargetMol in your scientific articles! Claim your reward following our Citation Rewards Program.

Publications	Redemption Option	Impact Factor (IF)
Science/ Nature/ Cell	\$300 Amazon Gift Card or \$600 coupon	/
SCI	\$150 Amazon Gift Card or \$300 coupon	IF ≥ 10
SCI	\$100 Amazon Gift Card or \$200 coupon	5 ≤ IF < 10
SCI	\$50 Amazon Gift Card or \$100 coupon	1 ≤ IF < 5

For further information, please visit [www.targetmol.com](http://www.targetmol.com) or contact [marketing@targetmol.com](mailto:marketing@targetmol.com)

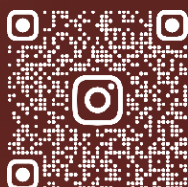
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— Your Target Molecules (Inhibitors & Agonists, Compound Libraries, Natural Products, Recombinant Proteins, Technical Services)